

Amaury Herpin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

2,129

citations

26

h-index

45

g-index

73

ext. papers

2,599

ext. citations

5.4

avg, IF

4.99

L-index

#	Paper	IF	Citations
66	Transforming growth factor-beta-related proteins: an ancestral and widespread superfamily of cytokines in metazoans. <i>Developmental and Comparative Immunology</i> , 2004 , 28, 461-85	3.2	162
65	Plasticity of gene-regulatory networks controlling sex determination: of masters, slaves, usual suspects, newcomers, and usurpators. <i>EMBO Reports</i> , 2015 , 16, 1260-74	6.5	148
64	Characterization of a defensin from the oyster <i>Crassostrea gigas</i> . Recombinant production, folding, solution structure, antimicrobial activities, and gene expression. <i>Journal of Biological Chemistry</i> , 2006 , 281, 313-23	5.4	147
63	Dmrt1 genes at the crossroads: a widespread and central class of sexual development factors in fish. <i>FEBS Journal</i> , 2011 , 278, 1010-9	5.7	127
62	The identification of genes from the oyster <i>Crassostrea gigas</i> that are differentially expressed in progeny exhibiting opposed susceptibility to summer mortality. <i>Gene</i> , 2004 , 343, 211-20	3.8	119
61	Transcriptional rewiring of the sex determining dmrt1 gene duplicate by transposable elements. <i>PLoS Genetics</i> , 2010 , 6, e1000844	6	86
60	Divergent expression patterns of Sox9 duplicates in teleosts indicate a lineage specific subfunctionalization. <i>Development Genes and Evolution</i> , 2005 , 215, 297-305	1.8	82
59	Cross-talk between the bone morphogenetic protein pathway and other major signaling pathways results in tightly regulated cell-specific outcomes. <i>FEBS Journal</i> , 2007 , 274, 2977-85	5.7	80
58	Specification of primordial germ cells in medaka (<i>Oryzias latipes</i>). <i>BMC Developmental Biology</i> , 2007 , 7, 3	3.1	76
57	Autosomal gsdf acts as a male sex initiator in the fish medaka. <i>Scientific Reports</i> , 2016 , 6, 19738	4.9	62
56	miR-196 regulates axial patterning and pectoral appendage initiation. <i>Developmental Biology</i> , 2011 , 357, 463-77	3.1	61
55	Identification of the master sex determining gene in Northern pike (<i>Esox lucius</i>) reveals restricted sex chromosome differentiation. <i>PLoS Genetics</i> , 2019 , 15, e1008013	6	56
54	Divergent expression regulation of gonad development genes in medaka shows incomplete conservation of the downstream regulatory network of vertebrate sex determination. <i>Molecular Biology and Evolution</i> , 2013 , 30, 2328-46	8.3	54
53	Foxl2 and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. <i>Sexual Development</i> , 2016 , 10, 111-29	1.6	54
52	Vertebrate sex-determining genes play musical chairs. <i>Comptes Rendus - Biologies</i> , 2016 , 339, 258-62	1.4	52
51	Inhibition of primordial germ cell proliferation by the medaka male determining gene Dmrt I bY. <i>BMC Developmental Biology</i> , 2007 , 7, 99	3.1	45
50	Sequential SDF1a and b-induced mobility guides Medaka PGC migration. <i>Developmental Biology</i> , 2008 , 320, 319-27	3.1	43

49	The unusual rainbow trout sex determination gene hijacked the canonical vertebrate gonadal differentiation pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12781-12786	11.5	42
48	Sex determination: switch and suppress. <i>Current Biology</i> , 2011 , 21, R656-9	6.3	41
47	Characterization of a Y-specific duplication/insertion of the anti-Mullerian hormone type II receptor gene based on a chromosome-scale genome assembly of yellow perch, <i>Perca flavescens</i> . <i>Molecular Ecology Resources</i> , 2020 , 20, 531-543	8.4	36
46	Molecular mechanisms of sex determination and evolution of the Y-chromosome: insights from the medakafish (<i>Oryzias latipes</i>). <i>Molecular and Cellular Endocrinology</i> , 2009 , 306, 51-8	4.4	33
45	Expression of the male determining gene <i>dmrt1bY</i> and its autosomal coorthologue <i>dmrt1a</i> in medaka. <i>Sexual Development</i> , 2007 , 1, 197-206	1.6	33
44	Sox5 is involved in germ-cell regulation and sex determination in medaka following co-option of nested transposable elements. <i>BMC Biology</i> , 2018 , 16, 16	7.3	32
43	Structural and functional evidence for a singular repertoire of BMP receptor signal transducing proteins in the lophotrochozoan <i>Crassostrea gigas</i> suggests a shared ancestral BMP/activin pathway. <i>FEBS Journal</i> , 2005 , 272, 3424-40	5.7	30
42	Regulatory back-up circuit of medaka <i>Wt1</i> co-orthologs ensures PGC maintenance. <i>Developmental Biology</i> , 2009 , 325, 179-88	3.1	28
41	Structural and functional evidences for a type 1 TGF-beta sensu stricto receptor in the lophotrochozoan <i>Crassostrea gigas</i> suggest conserved molecular mechanisms controlling mesodermal patterning across bilateria. <i>Mechanisms of Development</i> , 2005 , 122, 695-705	1.7	28
40	Gene structure and expression of <i>cg-ALR1</i> , a type I activin-like receptor from the bivalve mollusc <i>Crassostrea gigas</i> . <i>Gene</i> , 2002 , 301, 21-30	3.8	24
39	Defective autophagy through <i>epg5</i> mutation results in failure to reduce germ plasm and mitochondria. <i>FASEB Journal</i> , 2015 , 29, 4145-61	0.9	22
38	Increase of cortisol levels after temperature stress activates <i>dmrt1a</i> causing female-to-male sex reversal and reduced germ cell number in medaka. <i>Molecular Reproduction and Development</i> , 2019 , 86, 1405-1417	2.6	20
37	Structural and functional characterizations of an Activin type II receptor orthologue from the pacific oyster <i>Crassostrea gigas</i> . <i>Gene</i> , 2009 , 436, 101-7	3.8	20
36	Retinoic acid and meiosis induction in adult versus embryonic gonads of medaka. <i>Scientific Reports</i> , 2016 , 6, 34281	4.9	19
35	A highly conserved cis-regulatory motif directs differential gonadal synexpression of <i>Dmrt1</i> transcripts during gonad development. <i>Nucleic Acids Research</i> , 2009 , 37, 1510-20	20.1	18
34	Reconstruction of the birth of a male sex chromosome present in Atlantic herring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24359-24368	11.5	18
33	Evolution of master sex determiners: TGF-β signalling pathways at regulatory crossroads. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200091	5.8	18
32	Regulatory putches create new ways of determining sexual development. <i>EMBO Reports</i> , 2008 , 9, 966-86.5	8.5	17

31	RADSex: A computational workflow to study sex determination using restriction site-associated DNA sequencing data. <i>Molecular Ecology Resources</i> , 2021 , 21, 1715-1731	8.4	16
30	Analysis of a novel gene, Sdgc, reveals sex chromosome-dependent differences of medaka germ cells prior to gonad formation. <i>Development (Cambridge)</i> , 2014 , 141, 3363-9	6.6	14
29	Ectopic expression of single transcription factors directs differentiation of a medaka spermatogonial cell line. <i>Stem Cells and Development</i> , 2011 , 20, 1425-38	4.4	14
28	Chaperone-Mediated Autophagy in the Light of Evolution: Insight from Fish. <i>Molecular Biology and Evolution</i> , 2020 , 37, 2887-2899	8.3	13
27	Molecular characterization of a new leucine-rich repeat-containing G protein-coupled receptor from a bivalve mollusc: evolutionary implications. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2004 , 1680, 137-44		13
26	Sex chromosome and sex locus characterization in goldfish, <i>Carassius auratus</i> (Linnaeus, 1758). <i>BMC Genomics</i> , 2020 , 21, 552	4.5	12
25	Expanding the classical paradigm: what we have learnt from vertebrates about sex chromosome evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200097	5.8	12
24	Genome Sequence of the Euryhaline Javafish Medaka, : A Small Aquarium Fish Model for Studies on Adaptation to Salinity. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 907-915	3.2	11
23	CMA restricted to mammals and birds: myth or reality?. <i>Autophagy</i> , 2018 , 14, 1267-1270	10.2	11
22	Analysis of the putative tumor suppressor gene <i>cdkn2ab</i> in pigment cells and melanoma of <i>Xiphophorus</i> and medaka. <i>Pigment Cell and Melanoma Research</i> , 2019 , 32, 248-258	4.5	9
21	A tolloid homologue from the Pacific oyster <i>Crassostrea gigas</i> . <i>Gene Expression Patterns</i> , 2007 , 7, 700-8	1.5	8
20	A supernumerary "B-sex" chromosome drives male sex determination in the PachŃ cavefish, <i>Astyanax mexicanus</i> . <i>Current Biology</i> , 2021 , 31, 4800-4809.e9	6.3	8
19	The rise and fall of the ancient northern pike master sex-determining gene. <i>ELife</i> , 2021 , 10,	8.9	7
18	Lessons from an unusual vertebrate sex-determining gene. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200092	5.8	7
17	Vertebrate sex determination: questioning the hierarchy. <i>FEBS Journal</i> , 2011 , 278, 1001	5.7	5
16	Allelic diversification after transposable element exaptation promoted as the master sex determining gene of sablefish. <i>Genome Research</i> , 2021 , 31, 1366-1380	9.7	5
15	Sex Determination and Differentiation in Fish 2018 , 35-63		5
14	The replaceable master of sex determination: bottom-up hypothesis revisited. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200090	5.8	4

13	A novel evolutionary conserved mechanism of RNA stability regulates synexpression of primordial germ cell-specific genes prior to the sex-determination stage in medaka. <i>PLoS Biology</i> , 2019 , 17, e30001857	8.7	3
12	Identification of the master sex determining gene in Northern pike (<i>Esox lucius</i>) reveals restricted sex chromosome differentiation		3
11	Sex Determination and Sex Control in Salmonidae 2018 , 249-280		3
10	Primordial Germ Cell Migration and Histological and Molecular Characterization of Gonadal Differentiation in PachŃ Cavefish <i>Astyanax mexicanus</i> . <i>Sexual Development</i> , 2020 , 14, 80-98	1.6	2
9	Evolution of Sex Determining Genes in Fish 2018 , 168-175		2
8	An ancient truncated duplication of the anti-Mullerian hormone receptor type 2 gene is a potential conserved master sex determinant in the Pangasiidae catfish family.. <i>Molecular Ecology Resources</i> , 2022 ,	8.4	2
7	Sex Determination in Vertebrates 2018 , 159-167		1
6	Characterization of a Y-specific duplication/insertion of the anti-Mullerian hormone type II receptor gene based on a chromosome-scale genome assembly of yellow perch, <i>Perca flavescens</i>		1
5	Sex chromosome and sex locus characterization in the goldfish, <i>Carassius auratus</i>		1
4	The rise and fall of the ancient northern pike master sex determining gene		1
3	RADSex: a computational workflow to study sex determination using Restriction Site-Associated DNA Sequencing data		1
2	Lighting chaperone-mediated autophagy (CMA) evolution with an ancient LAMP: the existence of a functional CMA activity in fish. <i>Autophagy</i> , 2020 , 16, 1918-1920	10.2	1
1	Crosstalk Between Retinoic Acid and Sex-Related Genes Controls Germ Cell Fate and Gametogenesis in Medaka. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 613497	5.7	0